

#### University of Tripoli Faculty of Information Technology

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# HTML5 ENTITES & SEMANTIC ELEMENTS & VALIDATION

Introduction to Internet Programming ITGS 226 -- S 2021

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#### **HTML Entities**

- Character entities are used to display reserved characters in HTML.
- &entity\_name; OR &#entity\_number;
- Entity names are case sensitive.
- To display a less than sign (<), write: &It; or &#60;</li>
- A commonly used entity in HTML is the non-breaking space:

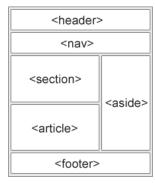
### **Some Useful HTML Character Entities**

Result	Description	<b>Entity Name</b>	<b>Entity Number</b>
	non-breaking space		
<	less than	<	<
>	greater than	>	>
&	ampersand	&	&
"	double quotation mark	"	"
•	single quotation mark (apostrophe)	'	'
©	copyright	&сору;	©

3

## **SEMANTIC ELEMENTS**

- <header>
- <nav>
- <section>
- <article>
- <aside>
- <footer>



4

#### **SEMANTIC ELEMENT: <HEADER>**

- The <header> element represents a container for introductory content or a set of navigational links.
- A <header> element typically contains:
  - one or more heading elements (<h1> <h6>)
  - · logo or icon
  - Authorship information
- It is a Block element that may contain block or inline or text content.
- No <footer> or another <header> element as ancestors or descendants

5

#### **SEMANTIC ELEMEN: <NAV>**

- The <nav> element defines a section of navigation links (i.e. links to other pages or to parts within the page itself) in a document.
- It is a Block element that may contain block or inline or text content.

#### **SEMANTIC ELEMENT: <SECTION>**

- The <section> element defines a section in a document.
- Examples of where a <section> element can be used:
  - Chapters
  - Introduction
  - News items
  - · Contact information
- A web page could normally be split into sections for introduction, content, and contact information.
- It is a Block element that may contain block or inline or text content.

. 7

#### SEMANTIC ELEMENT: <ARTICLE>

- The <article> element specifies independent, self-contained content.
- An article should make sense on its own, and it should be possible to distribute it independently from the rest of the web site.
- Examples of where the <article> element can be used:
  - Forum posts
  - Blog posts
  - User comments
  - Newspaper articles
- It is a Block element that may contain block or inline or text content.

#### **SEMANTIC ELEMENT: <ASIDE>**

- The <aside> element defines some content aside from the content it is placed in (like a sidebar).
- The <aside> content should be indirectly related to the surrounding content.
- It is a Block element that may contain block or inline or text content.

9

#### **SEMANTIC ELEMENT: <FOOTER>**

- The <footer> element defines a footer for a document or section.
- A <footer> element typically contains:
  - copyright information
  - contact information
  - back to top links
  - · related documents
- You can have several <footer> elements in one document.
- It is a Block element that may contain block or inline or text content, but no <footer> or <header>.

#### **NON-SEMANTIC ELEMENTS**

- <div>
- <span>

11

#### NON-SEMANTIC ELEMENT: < DIV>

- The <div> (short for *division*) tag is generic container for flow content, which has no default rendering or meaning.
- The <div> tag is extensively used to define the structural sections of a document and to layout a web page using CSS.
- It is a Block element that may contain block or inline or text content.

#### NON-SEMANTIC ELEMENT: <SPAN>

- The <span> tag is generic inline container for phrasing content, which has no default rendering or meaning.
- The <span> tag is extensively used to define the structural sections of a document and to layout a web page using CSS.
- It is a Inline element that may contain inline or text content.

13

#### NON-SEMANTIC ELEMENT: <SPAN>

- The <span> tag is generic inline container for phrasing content, which has no default rendering or meaning.
- The <span> tag is extensively used to define the structural sections of a document and to layout a web page using CSS.
- It is a Inline element that may contain inline or text content.

## **HTML5 VALIDATION**

 The World Wide Web Consortium provide a simple online tool (<a href="https://validator.w3.org/">https://validator.w3.org/</a>) that automatically check your HTML code and point out any problems/errors your code might have, such as missing closing tags or missing quotes around attributes.

15

## THE END